

GREENHOUSE HORTICULTURE, TESTAMUR MAJOR (T107)

Western Sydney University Major Code: T107

Previous Code: ST3078.1

Available to students in other Western Sydney University

Programs: Yes. Check that your program has the available credit points required to complete the subjects in this field of study. Any requisite requirements must also be met. Consult your Program Advisor for further advice.

This postgraduate major is designed for science graduates interested in a career in horticulture, protected cropping, greenhouse technology, postharvest technology, and agricultural biotechnology, working in a variety of settings such as food production, research and development, technical and senior management. This unique opportunity in greenhouse horticulture offers students exciting learning opportunities to develop expertise to meet future challenges to food supply, crop management, greenhouse control systems, and integrated pest management in a world-class greenhouse facility. Students will meet with industry experts and growers in becoming professional horticultural researchers with the technical and critical thinking skills to solve complex real-world problems and articulate appropriate solutions. A capstone subject involving either a research or professional industry project allows students to integrate their knowledge and skills developed from the whole program.

Location

Campus	Mode	Advice
Hawkesbury Campus	Internal	Science@westernsydney.e

Major Structure

Qualification for the award of Master of Science (Greenhouse Horticulture) requires the successful completion of 160 credit points comprising:

- 20 credit points of core subjects,
- 20 credit points of research capstone subjects,
- 40 credit points of major subjects as follows

Subject	Title	Credit Points
HORT 7001	Advanced Greenhouse Technology	10
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
Total Credit Points		40

- and at least 40 credit points from Alternate Pool 1 and up to 40 credit points from Alternate Pool 2.

Students should note that the subjects available in Alternate Pool 1 and Alternate Pool 2 are listed under the Structure tab of the Master of Science (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/master-science/>) page.

Recommended Sequence Current Master of Science full-time start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
Select two alternate subjects		20
Credit Points		40
Spring session		
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
HORT 7001	Advanced Greenhouse Technology	10
MATH 7016	The Nature of Data	10
Select one alternate subject		10
Credit Points		40
Year 2		
Autumn session		
NATS 7055	Experiment Design and Project Management	10
Select three alternate subjects		30
Credit Points		40
Spring session		
Select 20 credit points from the following (note that MSc Research Project is a 20 credit point subject):		20
NATS 7033	MSc Research Project	
NATS 7054	Professional Topic	
NATS 7057	Research Preparation in Post Graduate Studies	
Select two alternate subjects		20
Credit Points		40
Total Credit Points		160

Master of Science full-time mid-year intake

Course	Title	Credit Points
Year 1		
Spring session		
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
HORT 7001	Advanced Greenhouse Technology	10
Select two alternate subjects		20
Credit Points		40
Autumn session		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
Select two alternate subjects		20
Credit Points		40
Year 2		
Spring session		
MATH 7016	The Nature of Data	10
Select 20 credit points from the following (note that MSc Research Project is a 20 credit point subject):		20
NATS 7033	MSc Research Project	
NATS 7054	Professional Topic	

NATS 7057	Research Preparation in Post Graduate Studies	
Select one alternate subject	10	
Credit Points	40	
Autumn session		
NATS 7055	Experiment Design and Project Management	10
Select three alternate subjects	30	
Credit Points	40	
Total Credit Points	160	

Major in other postgraduate programs, full-time start-year intake

Students undertaking the major as part of a postgraduate program other than the Master of Science must complete 40 credit points of specialisation subjects.

Course	Title	Credit Points
Year 1		
Autumn session		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
Credit Points	20	
Spring session		
HORT 7001	Advanced Greenhouse Technology	10
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
Credit Points	20	
Total Credit Points	40	

Major in other postgraduate programs, full-time mid-year intake

Students undertaking the major as part of a postgraduate program other than the Master of Science must complete 40 credit points of specialisation subjects.

Course	Title	Credit Points
Year 1		
Spring session		
HORT 7001	Advanced Greenhouse Technology	10
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
Credit Points	20	
Autumn session		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
Credit Points	20	
Total Credit Points	40	

Equivalent Subject

The subject listed below counts towards completion of this major for students who passed this subject in 2021 or earlier.

ENGR 7018 - Research Preparation in Post Graduate Studies, replaced by NATS 7057 Research Preparation in Post Graduate Studies

Recommended Sequence 2023

Master of Science full-time start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
Select two alternate subjects		20
Credit Points	40	
Spring session		
HORT 7001	Advanced Greenhouse Technology	10
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
MATH 7016	The Nature of Data	10
Select one alternate subject		10
Credit Points	40	
Year 2		
Autumn session		
NATS 7055	Experiment Design and Project Management	10
Select three alternate subjects		30
Credit Points	40	
Spring session		
Select 20 credit points from the following (note that MSc Research Project is a 20 credit point subject):		20
NATS 7033	MSc Research Project	
HORT 7004	Industry Project	
HORT 7005	Industry Project (Extended)	
NATS 7054	Professional Topic	
NATS 7057	Research Preparation in Post Graduate Studies	
Select two alternate subjects		20
Credit Points	40	
Total Credit Points		160
Master of Science full-time mid-year intake		
Course	Title	Credit Points
Year 1		
Spring session		
HORT 7001	Advanced Greenhouse Technology	10
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
Credit Points	20	
Autumn session		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
Credit Points	20	
Total Credit Points		40
Autumn session		
Select one alternate subjects		10
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
NATS 7055	Experiment Design and Project Management	10
Credit Points	40	

Year 2**Spring session**

Select 20 credit points from the following (note that MSc Research Project is a 20 credit point subject): 20

NATS 7033	MSc Research Project
HORT 7004	Industry Project
HORT 7005	Industry Project (Extended)
NATS 7054	Professional Topic
NATS 7057	Research Preparation in Post Graduate Studies

Select two alternate subjects 20

Credit Points 40

Autumn session

Select four alternate subjects 40

Credit Points 40

Total Credit Points 160

Equivalent Subject

The subject listed below counts towards completion of this major for students who passed this subject in 2021 or earlier.

ENGR 7018 - Research Preparation in Post Graduate Studies, replaced by NATS 7057 Research Preparation in Post Graduate Studies

Related Programs

Master of Science (3749) (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/master-science/>)

Major in other postgraduate programs, full-time start-year intake

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Course	Title	Credit Points
Year 1		
Autumn session		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
	Credit Points	20
Spring session		
HORT 7001	Advanced Greenhouse Technology	10
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
	Credit Points	20
	Total Credit Points	40

Major in other postgraduate programs, full-time mid-year intake

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Course	Title	Credit Points
Year 1		
Spring session		
HORT 7001	Advanced Greenhouse Technology	10
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	Credit Points	20
Autumn session		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
	Credit Points	20
	Total Credit Points	40